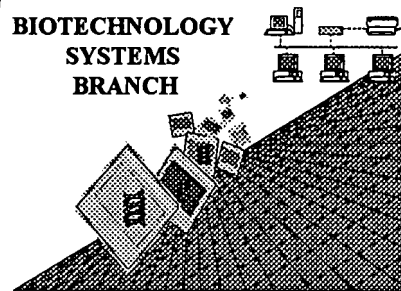


Wesnesday

#4

# **RAW SEQUENCE LISTING** **ERROR REPORT**

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

09/096,749

Art Unit / Team No. :

1642

Date Processed by STIC:

9/9/98

**THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.**

**PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:**

**1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**

**2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

**THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.**

**IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:**

**ARTI SHAH 703-308-4212**

#4/AL  
10/19/98

## Raw Sequence Listing Error Summary

### ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/096,749

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☒ 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.  
All text must be visible on page.
- 4 ☐ 4 Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and uses spacing between the numbers.
- 5 ☐ 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ 6 Variable Length Sequence(s)        contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) features section that some may be missing.
- 7 ☒ 7 Wrong Designation Sequence(s) 110 contain amino acid or nucleic acid designators which are not standard representations as per the Sequence Rules (Please refer to paragraph 1.822)
- 8 ☐ 8 Skipped Sequences (OLD RULES) Sequence(s)        missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ 9 Skipped Sequences (NEW RULES) Sequence(s)        missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 10 ☐ 10 Use of N's or Xaa's (NEW RULES) Use of N's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
- 11 ☐ 11 Use of <213>Organism (NEW RULES) Sequence(s)        are missing this mandatory field or its response.
- 12 ☐ 12 Use of <220>Feature (NEW RULES) Sequence(s)        are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)  
(Sec. 1.823 of new Sequence Rules)
- 13 ☐ 13 Wrong Format File submitted was in the alphabetical heading format of the Old Sequence Rules. This is invalid since the "Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Disclosures" Federal Register Notice, Vol. 63, No. 104, June 1, 1998, p. 29620 applies to applications filed on or after July 1, 1998.  
AKS-Biotechnology Systems Branch- 7/10/98

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/096,749DATE: 09/09/98  
TIME: 15:58:54

INPUT SET: S28504.raw

This Raw Listing contains the General  
Information Section and those Sequences  
containing ERRORS.

Does Not Comply  
Corrected Diskette Needed

## SEQUENCE LISTING

1  
2  
3 (1) General Information  
4  
5 (i) APPLICANT: Koieda, Shohei  
6  
7 (ii) TITLE OF THE INVENTION: ARTIFICIAL ANTIBODY POLYPEPTIDES  
8  
9 (iii) NUMBER OF SEQUENCES: 118  
10  
11 (iv) CORRESPONDENCE ADDRESS:  
12 (A) ADDRESSEE: Schwegman, Lundberg, Woessner & Kluth P.A.  
13 (B) STREET: 121 South Eighth Street, Ste. 1600  
14 (C) CITY: Minneapolis  
15 (D) STATE: MN  
16 (E) COUNTRY: USA  
17 (F) ZIP: 55402  
18  
19 (v) COMPUTER READABLE FORM:  
20 (A) MEDIUM TYPE: Diskette  
21 (B) COMPUTER: IBM Compatible  
22 (C) OPERATING SYSTEM: DOS  
23 (D) SOFTWARE: FastSEQ Version 2.0b  
24  
25 (vi) CURRENT APPLICATION DATA:  
26 (A) APPLICATION NUMBER: 09/096,749  
27 (B) FILING DATE: June 12, 1998  
28  
29 (vii) PRIOR APPLICATION DATA:  
30 (A) APPLICATION NUMBER:  
31 (B) FILING DATE:  
32  
33 (viii) ATTORNEY/AGENT INFORMATION:  
34 (A) NAME: Ann S. Viksnins  
35 (B) REGISTRATION NUMBER: 37,748  
36 (C) REFERENCE/DOCKET NUMBER: 109.034US1  
37  
38 (ix) TELECOMMUNICATION INFORMATION:  
39 (A) TELEPHONE: (612) 373-6900  
40 (B) TELEFAX: (612) 339-3061  
41  
42

ERRORED SEQUENCES FOLLOW:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/096,749DATE: 09/09/98  
TIME: 15:58:55

INPUT SET: S28504.raw

273 (2) INFORMATION FOR SEQ ID NO:13:  
274  
275 (i) SEQUENCE CHARACTERISTICS:  
--> 276 (A) LENGTH: 59 base pairs  
277 (B) TYPE: nucleic acid  
278 (C) STRANDEDNESS: single  
279 (D) TOPOLOGY: linear  
280  
281 (ii) MOLECULE TYPE: cDNA  
282 (iii) HYPOTHETICAL: NO  
283 (iv) ANTI-SENSE: NO  
284 (v) FRAGMENT TYPE:  
285 (vi) ORIGINAL SOURCE:  
286  
287 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:  
288  
289 CGGGATCCCA TATGCAGGTT TCTGATGTTT CGCGTGACCT GGAAGTTGTT  
--> 290 GCTGCGACC 59  
291

*format error - see  
line 1 on Eva summary  
sheet*

*59*

292 (2) INFORMATION FOR SEQ ID NO:14:  
293  
294 (i) SEQUENCE CHARACTERISTICS:  
--> 295 (A) LENGTH: 55 base pairs  
296 (B) TYPE: nucleic acid  
297 (C) STRANDEDNESS: single  
298 (D) TOPOLOGY: linear  
299  
300 (ii) MOLECULE TYPE: cDNA  
301 (iii) HYPOTHETICAL: NO  
302 (iv) ANTI-SENSE: NO  
303 (v) FRAGMENT TYPE:  
304 (vi) ORIGINAL SOURCE:  
305  
306 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:  
307  
308 TAACTGCAGG AGCATCCAG CTGATCAGCA GGCTAGTCGG GGTGCGAGCA  
--> 309 ACAAC 55  
310

*same  
error*

311 (2) INFORMATION FOR SEQ ID NO:15:  
312  
313 (i) SEQUENCE CHARACTERISTICS:  
--> 314 (A) LENGTH: 51 base pairs  
315 (B) TYPE: nucleic acid  
316 (C) STRANDEDNESS: single  
317 (D) TOPOLOGY: linear  
318  
319 (ii) MOLECULE TYPE: cDNA  
320 (iii) HYPOTHETICAL: NO  
321 (iv) ANTI-SENSE: NO  
322 (v) FRAGMENT TYPE:  
323 (vi) ORIGINAL SOURCE:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/096,749DATE: 09/09/98  
TIME: 15:58:56

INPUT SET: S28504.raw

324  
325 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:  
326  
327 CTCCTGCAGT TACCGTGCCT TATTACCGTA TCACGTACGG TGAAACCGGT G  
328 51  
329

*Same*

---

402 (2) INFORMATION FOR SEQ ID NO:20:  
403

--> 404 (i) SEQUENCE CHARACTERISTICS:  
405 (A) LENGTH: 55 base pairs  
406 (B) TYPE: nucleic acid  
407 (C) STRANDEDNESS: single  
408 (D) TOPOLOGY: linear  
409  
410 (ii) MOLECULE TYPE: cDNA  
411 (iii) HYPOTHETICAL: NO  
412 (iv) ANTI-SENSE: NO  
413 (v) FRAGMENT TYPE:  
414 (vi) ORIGINAL SOURCE:  
415  
416 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:  
417  
418 CGGGATCCGA GCTCGCTGGG CTGTCACCAC GGCCAGTAAC AGCGTATACA  
--> 419 GTGAT 55  
420

*Same*

---

529 (2) INFORMATION FOR SEQ ID NO:27:  
530

--> 531 (i) SEQUENCE CHARACTERISTICS:  
532 (A) LENGTH: 51 base pairs  
533 (B) TYPE: nucleic acid  
534 (C) STRANDEDNESS: single  
535 (D) TOPOLOGY: linear  
536  
537 (ii) MOLECULE TYPE: cDNA  
538 (iii) HYPOTHETICAL: NO  
539 (iv) ANTI-SENSE: NO  
540 (v) FRAGMENT TYPE:  
541 (vi) ORIGINAL SOURCE:  
542  
543 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:  
544  
545 GATCAGCTGG GATGCTCCTN NKNNKNNKNN KNNKTATTAC CGTATCACGT A  
546 51  
547

*Same*

---

548 (2) INFORMATION FOR SEQ ID NO:28:  
549

--> 550 (i) SEQUENCE CHARACTERISTICS:  
551 (A) LENGTH: 57 base pairs  
552 (B) TYPE: nucleic acid  
553 (C) STRANDEDNESS: single

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/096,749DATE: 09/09/98  
TIME: 15:58:57

INPUT SET: S28504.raw

554 (D) TOPOLOGY: linear  
555  
556 (ii) MOLECULE TYPE: cDNA  
557 (iii) HYPOTHETICAL: NO  
558 (iv) ANTI-SENSE: NO  
559 (v) FRAGMENT TYPE:  
560 (vi) ORIGINAL SOURCE:  
561  
562 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:  
563  
564 TGTATACGCT GTTACTGGCN NKNNKNNKNN KNNKNNKNNK TCCAAGCCAA  
--> 565 TCTCGAT 57  
566

*same*

567 (2) INFORMATION FOR SEQ ID NO:29:  
568  
569 (i) SEQUENCE CHARACTERISTICS:  
--> 570 (A) LENGTH: 47 base pairs  
571 (B) TYPE: nucleic acid  
572 (C) STRANDEDNESS: single  
573 (D) TOPOLOGY: linear  
574  
575 (ii) MOLECULE TYPE: cDNA  
576 (iii) HYPOTHETICAL: NO  
577 (iv) ANTI-SENSE: NO  
578 (v) FRAGMENT TYPE:  
579 (vi) ORIGINAL SOURCE:  
580  
581 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:  
582  
583 CTGTATACGC TGTTACTGGC NNKNNKNNKN NKCCAGCGAG CTCCAAG  
584 47  
585

*same*

586 (2) INFORMATION FOR SEQ ID NO:30:  
587  
588 (i) SEQUENCE CHARACTERISTICS:  
--> 589 (A) LENGTH: 51 base pairs  
590 (B) TYPE: nucleic acid  
591 (C) STRANDEDNESS: single  
592 (D) TOPOLOGY: linear  
593  
594 (ii) MOLECULE TYPE: cDNA  
595 (iii) HYPOTHETICAL: NO  
596 (iv) ANTI-SENSE: NO  
597 (v) FRAGMENT TYPE:  
598 (vi) ORIGINAL SOURCE:  
599  
600 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:  
601  
602 CATCACTGTA TACGCTGTTA CTNNKNNKNN KNNKNNKTCC AAGCCAATCT C  
603 51  
604

*same*

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/096,749DATE: 09/09/98  
TIME: 15:58:57

INPUT SET: S28504.raw

2099 (2) INFORMATION FOR SEQ ID NO:110:  
2100  
2101 (i) SEQUENCE CHARACTERISTICS:  
--> 2102 (A) LENGTH: 94 amino acids  
2103 (B) TYPE: amino acid  
2104 (C) STRANDEDNESS: single  
2105 (D) TOPOLOGY: linear  
2106  
2107 (ii) MOLECULE TYPE: peptide  
2108 (iii) HYPOTHETICAL: NO  
2109 (iv) ANTI-SENSE: NO  
2110 (v) FRAGMENT TYPE: internal  
2111 (vi) ORIGINAL SOURCE:  
2112  
2113 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:  
2114  
2115  
2116 Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu  
2117 1 5 10 15  
2118 Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu  
2119 20 25 30 35  
--> 2120 Thr Gly Gly Asn Ser Pro Val Oxx Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala  
2121 40 45 50 55  
2122 Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr  
2123 60 65 70 75  
2124 Gly Arg Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr  
2125 80 85 90  
2126

invited owner act - see 1.822(b) of

2127 (2) INFORMATION FOR SEQ ID NO:111:  
2128  
2129 (i) SEQUENCE CHARACTERISTICS:  
--> 2130 (A) LENGTH: 248 base pairs  
2131 (B) TYPE: nucleic acid  
2132 (C) STRANDEDNESS: single  
2133 (D) TOPOLOGY: linear  
2134  
2135 (ii) MOLECULE TYPE: cDNA  
2136 (iii) HYPOTHETICAL: NO  
2137 (iv) ANTI-SENSE: NO  
2138 (v) FRAGMENT TYPE:  
2139 (vi) ORIGINAL SOURCE:  
2140  
2141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:  
2142  
2143 CTGCTGATCA GCTGGGATGC TCCTGCAGTT ACCGTGCGTT ATTACCGTAT  
2144 CACGTACGGT  
2145  
2146 GAAACCGGTG GTAAC TCCCC GGTT CAGGAA TTCAC TGTAC CTGGTTCCAA  
2147 GTCTACTGCT  
2148  
2149 ACCATCAGCG GCCTGAAACC GGGTGTCGAC TATACCATCA CTGTATACGC

Sequence Rules  
(see item  
7 on Enon  
summary  
sheet)

60 where are  
cumulative  
base totals  
at end of  
each line?  
==

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/096,749DATE: 09/09/98  
TIME: 15:58:58

INPUT SET: S28504.raw

2150 TGTTACTGGC  
2151  
2152 CGTGGTGACA GCCCAGCGAG CTCCAAGCCA ATCTCGATTA ACTACCGTAC  
2153 CTAGTAACTC  
2154  
--> 2155 GAGGATCC

---

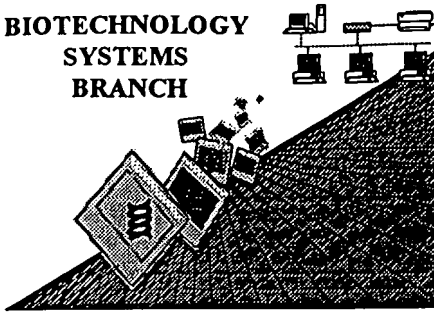
248



**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/096,749**DATE: 09/09/98  
TIME: 15:59:02**INPUT SET: S28504.raw**

Line	Error	Original Text
276	Entered (59) and Calc. Seq. Length (9) differ	(A) LENGTH: 59 base pairs
290	# of Sequences for line conflicts w/ running total	GCTGCGACC 59
295	Entered (55) and Calc. Seq. Length (5) differ	(A) LENGTH: 55 base pairs
309	# of Sequences for line conflicts w/ running total	ACAAC 55
314	Entered (51) and Calc. Seq. Length (0) differ	(A) LENGTH: 51 base pairs
405	Entered (55) and Calc. Seq. Length (5) differ	(A) LENGTH: 55 base pairs
419	# of Sequences for line conflicts w/ running total	GTGAT 55
532	Entered (51) and Calc. Seq. Length (0) differ	(A) LENGTH: 51 base pairs
551	Entered (57) and Calc. Seq. Length (7) differ	(A) LENGTH: 57 base pairs
565	# of Sequences for line conflicts w/ running total	TCTCGAT 57
570	Entered (47) and Calc. Seq. Length (0) differ	(A) LENGTH: 47 base pairs
589	Entered (51) and Calc. Seq. Length (0) differ	(A) LENGTH: 51 base pairs
2102	Entered (94) and Calc. Seq. Length (93) differ	(A) LENGTH: 94 amino acids
2120	Wrong Amino Acid Designator	Thr Gly Gly Asn Ser Pro Val Oxx Glu Phe Thr Val Pro Gly
2130	Entered (248) and Calc. Seq. Length (8) differ	(A) LENGTH: 248 base pairs
2155	# of Sequences for line conflicts w/ running total	GAGGATCC

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



## Notice of Availability of Checker Program

### Applicant Aid for Biotechnology Computer Readable Form (CRF) Sequence Listing Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (Sequence Rules: 37CFR 1.821 through 1.825). Final rules were published in the *Federal Register* (55 FR18230) on May 1, 1990, and in the PTO *Official Gazette* (1114 Off.Gaz.PatOffice 29) on May 15, 1990.

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

The most current version of the software is available via computer downloading, details are below. Copies on diskette are also available. Updated software versions will not be automatically mailed out; any updates will be announced in the PTO *Official Gazette*.

The software can be accessed/requested from the following locations:

- 1) Dial-up access through the Internet. Location is <ftp://ftp.uspto.gov>  
The software is in current directory: `pub/checker/`  
Download all the files. Cost: Free-of-charge
- 3) For diskette copies, mail to: U.S.P.T.O., OEIP, CRYSTAL PARK 3, SUITE 441  
WASHINGTON DC 20231

**COST FOR DISKETTE IS \$ 25.00**

**METHOD OF PAYMENT:**

Check payable to Commissioner of Patents and Trademarks  
VISA/ Mastercard/ Charge- Charges can be faxed to 703-306-2737  
PTO Deposit Account

*For Further Information, Contact: **Arti Shah at 703-308-4212***